

Message Text

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UNCLAS SECTION 1 OF 2 MOSCOW 0636

USDOC FOR BEWT/TPD (ROBB)

EPA FOR SHOSTAL

E.O. 11652: N/A
TAGS: BEXP, UR, EENV
SUBJECT: SUGGESTED THEMES FOR ENVIRONMENTAL PROTECTION S/ME

REF: (A) 77 MOSCOW 17185

1. EMBASSY HAS HAD DISCUSSION WITH SEVERAL SOVIET MINISTRIES
IN AN EFFORT TO LEARN WHICH TYPES OF POLLUTION CONTROL DEVICES
WOULD BE MOST APPROPRIATE FOR PROPOSED S/ME. WE ARE STILL
WAITING FOR INPUTS FROM CERTAIN KEY ORGANIZATIONS INCLUDING
MINISTRY OF PETROLEUM REFINING, MINISTRY OF POWER AND ELECTRI-
FICATION, AND MOSSOVIET AND WILL FORWARD AS SOON AS RECEIVED.
FOLLOWING ARE SUGGESTIONS RECEIVED TO DATE (BY MINISTRY).

A. MINISTRY OF NON-FERROUS METALLURGY:

I. AIR TREATMENT

A. SPECIAL ELECTRO-STATIC PRECIPITATORS FOR VERY
HIGH TEMPERATURE GASSES;

B. EQUIPMENT FOR ACOUSTIC COAGULATION OF GASES
(USE OF SOUND WAVES FOR EXHAUST GAS TREATMENT);

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C. FIBER FILTERS AND FIBER FILTER MATERIALS CAPABLE
OF WITHSTANDING VERY HIGH TEMPERATURES;
D. EQUIPMENT TO PERMIT REMOVAL OF VERY SMALL
QUANTITIES OF SO2;
E. FLUORIDE CONTROL EQUIPMENT FOR USE IN ALUMINUM
POT LINES.

II. WATER TREATMENT

- A. EQUIPMENT AND TECHNOLOGY FOR REMOVAL OF CHEMICAL REAGENTS FROM EFFLUENTS (THESE WOULD BE REAGENTS WHICH ARE ADDED IN CONCENTRATION PROCESS);
- B. EQUIPMENT FOR WATER RECYCLING IN PRODUCTION PROCESS TO PERMIT TOTAL CLEANING OF WATER FOR INDUSTRIAL RE-USE.

B. MINISTRY OF PULP AND PAPER:

I. AIR TREATMENT

- A. EQUIPMENT FOR ELIMINATION OF ODORS AT SULPHATE PLANTS;
- B. INSTRUMENTS FOR MEASUREMENT OF ODORS, PARTICULARLY CH₃SH (SIC) AND OTHER SULPHUR ORGANIC SUBSTANCES.

II. WATER TREATMENT

- A. SYSTEMS TO TREAT SLUDGE WITHOUT CHEMICALS- TO POINT WHERE IT CAN BE TRANSPORTED SHORT DISTANCES;
- B. TREATMENT OF EFFLUENTS TO OBTAIN AN EXCEPTIONALLY HIGH DEGREE OF PURITY. (MINISTRY STATED THAT NORMAL TREATMENT WOULD BE TO ATAAIN 20 PARTICLES PER LITER. THEY WOULD LIKE TO HEAR ABOUT SYSTEMS CAPABLE OF ACHIEVING 5-10 PARTICLES PER LITER. SOVIETS HAVE GENERALLY USED SAND FILTERS AND WOULD UNCLASSIFIED

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BE INTERESTED TO LEARN ABOUT ALTERNATIVE METHODS.);

- C. EQUIPMENT AND TECHNOLOGY FOR DECOLORING EFFLUENTS, PARTICULARLY EFFLUENTS FROM PULP BLEACHING PROCESS. (SOVIETS USUALLY EMPLOY LIME FOR THIS PURPOSE. THEY WOULD BE INTERESTED IN U.S. FIRMS WHICH PERFORM DECOLORING BY ION EXCHANGE, MEMBRANE METHODS, REVERSE OSMOSIS, ULTRA FILTRATION, HYPER FILTRATION.)

C. MINISTRY OF CHEMICAL INDUSTRY:

I. PRINCIPAL METHODS OFOR CLEANING INDUSTRIAL SEWAGE WATER OF FOLLOWING:

- A. VISCOSE FIBERS;
- B. ACRYL-NITRILE FIBER;
- C. DYES;
- E. POLYVINYL SPIRITS.

II. MEANS AND EQUIPMENT FOR TREATING INDUSTRIAL WATER POLLUTION BY MEANS OF:

- A. ELECTROCOAGULATION;
- B. ION EXCHANGE (BY USE OF ION-EXCHANGE RESINS AND MEMBRANES);

C. REVERSE OSMOSIS AND ULTRAFILTRATION (WITH AID
OF MEMBRANES AND FILTER-FILLED FIBERS);
D. ADSORPTION.

III. TECHNOLOGY AND EQUIPMENT FOR DEMINERALIZING SEWAGE
WATER CONTAINING A HEAVY CONCENTRATION OF SALTS AND
ORGANIC MINERALS, AS WELL AS SEDIMENTS WHICH RESULT
FROM NEUTRALIZING SEWAGE WATER.

IV. TECHNOLOGY AND EQUIPMENT FOR EXTRACTING SPECIFIC
COMPOUNDS FROM SEWAGE WATERS:

A. HEAVY METALS;
B. FLUORIDE AND ITS COMPOUNDS;
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C. ZINC AND ITS COMPOUNDS.

V. TECHNOLOGY AND EQUIPMENT FOR CLEANING ESCAPING GASES
AND VENTILATED AIR BY REMOVAL OF ARSENIC, MERCURY,
FLUORIDE COMPOUNDS, NITROGEN OXIDES, SULFIDE, ANHYDRIDE,
CARBON MONOXIDE, DUST (ESPECIALLY IN GRANULATION TOWERS
IN PRODUCTION OF UREIC AND AMMONIA NITRATES).

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USDOC FOR BEWT/TPD (ROBB)

EPA FOR SHOSTAL

VI. TECHNIQUES USED FOR ENVIRONMENT PROTECTION AT
OPEN PHOSPHOROUS WORKS IN FLORIDA.

VII. CONTROL SYSTEMS AND EQUIPMENT

A. DIFFUSION DILUTERS IN POLYMER MEMBRANES
"DIFFUSORTION" (MELOY CO.);
B SYSTEMS FOR SELECTING AND PREPARING TESTS
BY AUTOMATIC ANALYSIS OF GASEOUS WASTES;
C. EQUIPMENT FOR DETERMINING PRESENCE OF VARIOUS
ORGANIC MATTER IN SEWAGE WATER (AMINOS, PHENYLS,
CHLORINE-PRODUCERS);
D. EQUIPMENT FOR MEASURING AMOUNT OF WATER IN OPEN
STREAMS AND CANALS, UNPRESSURIZED PIPELINES AND
IN PRESSURIZED PIPELINES IN AN ACID ENVIRONMENT;
E. AUTOMATION SYSTEMS FOR VARIOUS WATER TREATMENT
STATIONS (I.E. NEUTRALIZING STATIONS, CHEMICAL
TREATMENT PLANTS, BIOLOGICAL TREATMENT).

D. MINISTRY OF CONSTRUCTION MATERIALS INDUSTRY:

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I. CLEANING AIR AND WATER EMINATING FROM CEMENT PLANTS
UNDER CONDITIONS OF VERY LOW TEMPERATURES.

II. TREATMENT OF AIR AND WATER FROM FOLLOWING TYPES OF
PRODUCTION FACILITIES: ASBESTOS; ASBESTOS CEMENT;
GLASS; BRICK WORKS.

2. MINISTRIES CONTACTED THUS FAR HAVE PROVIDED US WITH
VERY LIMITED NUMBER OF NAMES OF PREFERRED U.S. FIRM PAR-
TICIPANTS. FIRM ENVIROTECH WAS RECOMMENDED BY MINISTRY OF
PULP AND PAPER. MINISTRY SUGGESTED THAT USDOC MIGHT WISH
TO CONTACT EPA AS WELL AS NATIONAL COUNCIL FOR PULP AND
PAPER INDUSTRY (MR. HELLMAN, TECHNICAL DIRECTOR) FOR ADDI-
TIONAL SUGGESTIONS. HELLMAN REPORTEDLY VISITED USSR LAST
SEPTEMBER.

3. ENVIRONMENTAL PROTECTION THEME HAS GENERATED CONSIDER-
ABLE INTEREST ON PART OF SOVIET MINISTRIES WE HAVE CONTACTED,
ALTHOUGH IT IS DIFFICULT FOR US TO ASSESS WHERE BEST MARKETING
POSSIBILITIES MIGHT LIE. MINISTRY OF PULP AND PAPER, WHICH
HAS EVIDENTLY BEEN FORCED TO DEAL WITH VERY SERIOUS POLLUTION
PROBLEMS (E.G., LAKE BAIKAL PLANT), APPEARS TO HAVE HAD MOST
CONTACT WITH WESTERN FIRMS, FOLLOWED BY MINISTRY OF NON-FERROUS
METALLURGY. MINISTRY OF CHEMICAL INDUSTRY, WHILE INTERESTED IN
EVENT, CLAIMS ALL ITS POLLUTION CONTROL EQUIPMENT IS PROCURED
FROM SOVIET SOURCES. (WE DOUBT THAT THIS IS ENTIRELY ACCURATE

SINCE MANY OF THE TURN-KEY FACILITIES BUILT FOR THIS MINISTRY
UNQUESTIONABLY CONTAIN WESTERN POLLUTION CONTROL HARDWARE).
WHILE WE STILL WOULD PREFER TO LIMIT THE PARTICIPATION OF
MEASUREMENT INSTRUMENT MAKERS INS/ME, SPECIALIZED INSTRUMENTA-
TION IS CLEARLY OF INTEREST TO SOVIETS AND DOES HAVE MARKET
POTENTIAL. STRONGLY RECOMMEND, HOWEVER, THAT NUMBER OF INSTRUMENT
MAKERS BE LIMITED TO AN ABSOLUTE MAXIMUM OF FOUR.
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